Montgomery County Community College
MAT 010B
Fundamentals of Arithmetic
0-1-0

COURSE DESCRIPTION:
A fundamental course in basic mathematical skills. This course does not offer degree credit. Topics include operations on signed numbers, fractions, decimals, percents, and other arithmetic topics.

This precollege level course cannot be used to fulfill a degree requirement nor is it calculated in a student's Grade Point Average (GPA); however, the credits billed will be applied towards a student's financial aid enrollment status and enrollment status reported to the National Student Clearinghouse.

REQUISITES:
Previous Course Requirements
None

Concurrent Course Requirements
None

COURSE COMMENTS
* Course requires Math placement test
* Accepted Math placement test scores include an Arithmetic Accuplacer Test Score of 263-275.

LEARNING OUTCOMES Upon successfully completing this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
1. Combine real numbers and solve addition applications.	Discovery Activities Group Work	Assignments Test
2. Find the differences of real numbers and solve subtraction applications; solve equations.	Discovery Activities Group Work	Assignments Test
3. Compute the product of real numbers and solve multiplication applications.	Discovery Activities Group Work	Assignments Test
4. Compute the quotient of real numbers; solve division applications; solve equations.	Discovery Activities Group Work	Assignments Test

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
5. Solve multiple step problems.	Discovery Activities Group Work	Assignments Test

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that *70% of students will meet or exceed outcome criteria*.

SEQUENCE OF TOPICS

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Combinations

MATERIALS
Textbook: (optional)
Lontz, Barbara (2017) *Concepts of Numbers for Arithmetic and Prealgebra* (6th ed.).
    Pearson Learning Solutions.

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APPROVAL: Date: June, 2007
Prepared by: James Muscatell   Date: 4/2007
Revised by: Marion Graziano, Assistant Professor Mathematics Date: 8/4/2011
VPAA/Provost Compliance Verification:
        Victoria L. Bastecki-Perez, Ed.D.   Date: 8/5/2011

Revised by: Barbara Lontz   Date: 12/17/12
VPAA/Provost or designee Compliance Verification:
        Victoria L. Bastecki-Perez, Ed.D.   Date: 5/23/2013

Revised by: Marion Graziano/Debbie Dalrymple   Date: 8/2/2017
VPAA/Provost or designee Compliance Verification: Date: 8/24/2017

This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.